

8. Project-Level Reporting on Form EIA-1605EZ

The Energy Information Administration (EIA) provides Form EIA-1605EZ to participants in the Voluntary Reporting of Greenhouse Gases Program as a less comprehensive and less detailed alternative to Form EIA-1605. Form EIA-1605EZ (the “short form”) allows reporters to provide a brief summary of their emission reduction projects for a single year. The short form is used exclusively for reporting projects undertaken within the geographic boundaries of the United States, its territories and trusts. Because reports submitted on Form EIA-1605EZ do not make a distinction between owning or controlling an emissions source and simply initiating or participating in an emission reduction activity, there is no systematic way to distinguish between direct and indirect emissions reported on this form. Also, because the data reported in support of the emission reduction estimates are limited, it is difficult to perform anything but the most rudimentary arithmetic checks for accuracy.

Who Reported on Form EIA-1605EZ

A total of 34 entities submitted reports on Form EIA-1605EZ for 2003. Of those, 17 were electric power providers, typically, relatively small electric power cooperatives; 8 were alternative energy providers, including one coal mine methane developer, 2 landfill gas-to-energy developers, and 5 firms that combusted biomass to reduce greenhouse gas emissions; and 6 were manufacturing firms—one each from the textile, refining, fabricated metals, and microprocessor industries, and 2 from the chemical industry. One industry association, one individual household, and one forestry firm also filed Form EIA-1605EZ for 2003.

What Was Reported on Form EIA-1605EZ

A total of 219 projects were reported on Form EIA-1605EZ for 2003 (Table 37), down from 253 projects reported on the short form for 2002. The decrease was caused by the absence of reports for 2003 from 3 entities representing 14 projects that were reported for 2002, and by the reporting of fewer projects for 2003 than were reported for 2002 by 4 other entities. (For example, Wisconsin Public Power, Inc., reported 61 projects for 2002 but only 30 for 2003.) Another 10 entities reported more projects for 2003 than they reported in 2002. Of the 219 projects reported for 2003, 76 focused on improvements in energy efficiency, 50 emphasized reductions in emissions from electricity generation, transmission, and distribution, and another 44 involved the capture and combustion of methane. Although reporting on methane capture and combustion has grown steadily since 1994, 7 fewer such projects were reported for 2003 than were reported for 2002. For example, U.S. Energy Biogas Corp reported fewer methane capture and combustion projects for 2003 than it did for 2002.

Together, the 219 projects reported on the short form for 2003 reduced greenhouse gas emissions by 16.4 million metric tons carbon dioxide equivalent (Table 38). Of that total, 11.0 million metric tons resulted from efforts in the electricity generation, transmission, and distribution sector. Another 3.5 million metric tons was attributed to waste treatment and disposal, nearly all of which resulted from the capture and combustion of methane at municipal solid waste landfills (Table 39).

Federal voluntary programs played an important role in those projects reported on Form EIA-1605EZ. Of the projects reported, 120 (55 percent) were associated with some Federal voluntary initiative: 57 were associated with the U.S. Department of Energy’s Climate Challenge program, and 41 of the 42 waste treatment and disposal projects reported referenced the U.S. Environmental Protection Agency’s Landfill Methane Outreach Program (Table 40).

Table 37. Number of Projects Reported on Form EIA-1605EZ by Reduction Objective and Project Type, Data Years 1994-2003

Reduction Objective and Project Type	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Reducing Carbon Dioxide Emissions	88	118	125	138	177	151	148	146	186	160
Electricity Generation, Transmission, and Distribution	35	44	44	46	59	53	55	50	58	50
Cogeneration and Waste Heat Recovery	0	1	2	2	2	0	0	0	1	0
Energy End Use	44	50	53	60	66	56	61	64	97	76
Transportation and Offroad Vehicles	5	8	11	9	14	11	12	13	9	10
Other Projects	4	15	15	21	36	31	20	19	21	24
Reducing Methane and Nitrous Oxide Emissions	15	21	30	32	41	45	44	47	51	44
Waste Treatment and Disposal (Methane)	10	16	21	28	39	42	43	45	49	42
Agriculture (Methane and Nitrous Oxide)	0	0	0	0	0	0	0	0	0	0
Oil and Natural Gas Systems and Coal Mining (Methane)	5	5	9	4	2	3	1	2	2	2
Carbon Sequestration	20	24	23	30	34	41	35	14	14	14
Halogenated Substances	2	1	1	1	0	0	2	3	2	1
Total	125	164	179	201	252	237	229	210	253	219

Note: Table excludes projects submitted in confidential reports.
Source: Energy Information Administration, Form EIA-1605EZ.

Table 38. Emission Reductions Reported on Form EIA-1605EZ by Reduction Objective and Project Type, Data Years 1994-2003
(Million Metric Tons Carbon Dioxide Equivalent)

Reduction Objective and Project Type	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Reducing Carbon Dioxide Emissions	3.7	5.0	4.4	6.7	16.4	9.6	9.2	10.9	12.8	12.5
Electricity Generation, Transmission, and Distribution	2.3	2.9	2.1	3.8	13.0	8.1	7.8	9.7	11.6	11.0
Cogeneration and Waste Heat Recovery	—	*	*	*	*	—	—	—	*	—
Energy End Use	1.4	1.6	1.9	2.4	2.4	0.3	0.4	0.3	0.4	0.4
Transportation and Offroad Vehicles	*	*	*	*	*	*	*	*	*	*
Other Projects	0.1	0.5	0.4	0.5	0.8	1.1	1.0	0.9	0.9	1.0
Reducing Methane and Nitrous Oxide Emissions	0.6	1.2	1.3	1.8	3.0	3.2	3.1	4.0	4.3	3.9
Waste Treatment and Disposal (Methane)	0.6	1.1	1.2	1.8	3.0	3.2	3.1	3.8	4.0	3.5
Agriculture (Methane and Nitrous Oxide)	—	—	—	—	—	—	—	—	—	—
Oil and Natural Gas Systems and Coal Mining (Methane)	*	*	*	*	0.1	0.1	*	0.2	0.3	0.3
Carbon Sequestration	*	*	*	*	*	0.1	*	*	*	*
Halogenated Substances	—	—	—	0.1	—	—	*	*	0.1	*
Total	4.3	6.1	5.7	8.6	19.4	12.9	12.3	14.8	17.3	16.4

*Less than 0.05 million metric tons.
— = none reported.
Note: Table excludes data submitted in confidential reports.
Source: Energy Information Administration, Form EIA-1605EZ.

Table 39. Carbon Dioxide and Methane Emission Reductions Reported on Form EIA-1605EZ by Reduction Objective and Project Type, Data Year 2003
(Million Metric Tons Carbon Dioxide Equivalent)

Reduction Objective and Project Type	Carbon Dioxide	Methane
Reducing Carbon Dioxide Emissions	12.4	*
Electricity Generation, Transmission, and Distribution	11.0	—
Cogeneration and Waste Heat Recovery	—	—
Energy End Use	0.4	—
Transportation and Offroad Vehicles	*	—
Other Projects	1.0	*
Reducing Methane and Nitrous Oxide Emissions	*	3.8
Waste Treatment and Disposal (Methane)	*	3.5
Agriculture (Methane and Nitrous Oxide)	—	—
Oil and Natural Gas Systems and Coal Mining (Methane)	*	0.3
Carbon Sequestration	*	—
Halogenated Substances	—	—
Total	12.5	3.8

*Less than 0.05 million metric tons.

— = none reported.

Notes: No reductions of nitrous oxide emissions were reported on Form EIA-1605EZ for 2003. Table excludes data submitted in confidential reports.

Source: Energy Information Administration, Form EIA-1605EZ.

Table 40. Number of Projects Reported on Form EIA-1605EZ Associated with Other Federal Voluntary Programs, Data Years 1994-2003

Voluntary Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Climate Challenge	106	127	117	124	129	114	111	97	75	57
Landfill Methane Outreach Program	—	—	2	2	34	40	42	44	48	41
Climate Wise Recognition Program	—	3	5	12	25	25	12	1	1	2
ENERGY STAR Programs	5	6	10	5	2	1	2	8	28	11
Energy Efficiency and Renewable Energy Information and Training Programs	—	—	—	—	—	—	—	—	27	—
Green Lights Program	1	3	6	4	6	2	1	1	1	—
Coalbed Methane Outreach Program	—	—	1	1	2	3	—	—	—	—
WasteWise Program	—	—	—	—	—	—	—	2	4	3
Other	4	11	3	9	7	1	3	11	7	6
Total	116	150	144	157	205	186	171	164	191	120

— = none reported.

Note: Table excludes data submitted in confidential reports.

Source: Energy Information Administration, Form EIA-1605EZ.

